User manual

Affinity® III

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1 Typographical Conventions

This manual contains different typefaces and icons designed to improve readability and increase understanding of its content. Note the following examples:

- Standard text—used for regular information.
- **Boldface text**—emphasizes a word or phrase.
- **NOTE:**—sets apart special information or important instruction clarification.
- The symbol below highlights a WARNING or CAUTION:

Warning and Caution

  - A WARNING identifies situations or actions that may affect patient or user safety. Disregarding a warning could result in patient or user injury.
  - A CAUTION points out special procedures or precautions that personnel must follow to avoid equipment damage.
- The symbol below highlights a CAUGHT HAZARD WARNING:

Caught Hazard Warning

- The symbol below highlights a CHEMICAL HAZARD WARNING:

Chemical Hazard Warning

- The symbol below highlights an ELECTRICAL SHOCK HAZARD WARNING:

Electrical Shock Hazard Warning

2 Intended Use

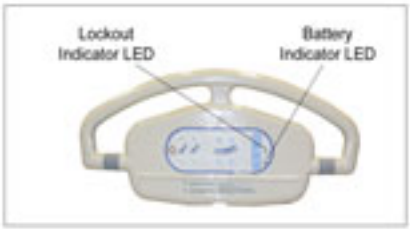
The Affinity® Three Birthing Bed is intended to be used as a birthing bed for women of child bearing age within the acute care Labor and Delivery market. It is not intended for use as a general hospital bed.

3 Introduction

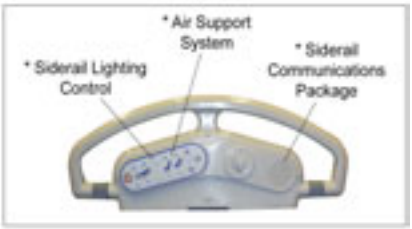
This manual provides the information required for normal operation of the Affinity® Three Birthing Bed from Hill-Rom. Before operating the Affinity® Three Birthing Bed, be sure that you have read and understood in detail the contents of this manual. It is important that you read and strictly adhere to the aspects of safety contained in this manual. Any reference to a side of the bed is from the patients' view lying in the bed on their back.

4 Features

Removeable Headboard
* Auxiliary Outlet (12 Volt AC)
One-Handle Siderail Release
* V-Cut or Straight Edge Mattress
* Removeable Lift or Slide-Off Foot Section
8˚ Trend-Like Positioning
Easy Glide™ Calf Supports
CPR Feature
Storable Labor Grips
Central Brake and Steer 6" or 8" Available
Fluid Basin
Built-In OneStep™ Foot Supports
* Optional



Caregiver Control Side of Siderail



Patient Control Side of Siderail

4.1 Automatic Tilt

- As the head section is raised, the seat section gradually tilts up from 0° to 15°.
- As the head section is lowered, the seat section gradually returns to a flat position.

4.2 Battery Backup

The Affinity® Three Birthing Bed is designed with battery backup as a standard feature. The battery allows the hilow, foot, and head motors to be activated from the siderail controls without power being supplied to the bed. In addition, the battery backup powers the nurse call function, but it does not power any other bed functions, such as the optional air support system.

Battery Backup Indicators

Location: The battery backup indicator is located on the siderail to indicate the battery condition.

Battery Backup LED Indicators:

- ON = Battery status is operational.
- FLASHING = Battery needs charging.
- OFF = Battery is discharged below the level required to run the motors.

NOTE :

If the battery has been completely discharged, it may take up to 36 hours to recharge to operational status.

CAUTION :

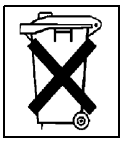
Remove the battery if the bed will not be in service for extended periods of time. Failure to do so could result in damage to the life of the battery, or damage to the bed. Contact the appropriate maintenance personnel, and refer to the *Affinity® Three Birthing Bed Service Manual* (man272).

To ensure the battery is always charged, plug the bed into the appropriate power source whenever possible.

Disposal

Power comes from a lead acid battery, which needs to be disposed of properly according to your local regulations.

For assistance in disposing of the battery, contact your maintenance technician.



Pb

4.3 Bed Controls

The Affinity® Three Birthing Bed is electrically operated using siderail or pendant controls. The hilow, head, and foot functions can be operated by battery backup, if necessary.

Nurse Control Panel

Patient Control Panel

4.3.1 Back Section Lumbar Mattress Control (Optional)

Back Section Mattress Controls

The *Back Section Mattress (Lumbar)* control enables you to inflate or deflate the back section lumbar mattress in order to attain a degree of firmness or softness.

Location: Caregiver and patient siderails (right hand and left hand)

To Activate:

- To inflate the back section, press and hold the *Back Firm* button (plus sign) until the desired firmness is attained.
- To deflate the back section, press and hold the *Back Deflate* button (minus sign) until the desired softness is attained.

4.3.1.1 Bed Up/Bed Down (Hilow)

The *Bed Up/Bed Down* controls located on both siderails allow you to raise or lower the bed 16" (41 cm).
The low position is for general use and to assist with patient egress, while the high position is used for patient procedures.

Location: Caregiver siderail (right hand and left hand).

To Activate:

- Press and hold the *Bed Up* button to raise the bed.
- Press and hold the *Bed Down* button to lower the bed.

WARNING :
Leave the bed in the low position when the patient is unattended. This can reduce the possibility of patient falls and the severity of any resultant injuries.

NOTE :

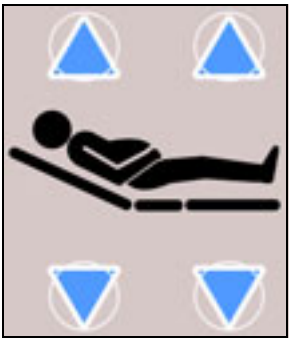
If the foot section is at its lowest position when the bed is lowered, the bed will stop at a higher position to ensure that the foot section does not interfere with the base.

NOTE :

If the bed is in the low position and the Trend-Like function is activated, the bed will rise to the appropriate height to allow the bed to move to the full Trend-Like position.

4.3.2 Foot Section

The *Foot Up/Foot Down* controls located on both siderails enable you to raise or lower the foot section of the bed 9" (23 cm) of travel from its lowest position.



Foot Section Controls

Location: Caregiver and patient siderails (right hand and left hand)
The *Foot Up/Down* buttons are the arrows located on the right side of the label.

To Activate:

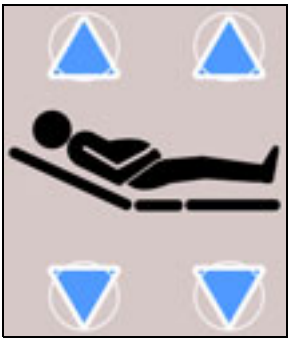
- Press and hold the *Foot Up* button to raise the foot section of the bed.
- Press and hold the *Foot Down* button to lower the foot section of the bed.

NOTE :

If the foot section is at its lowest position when the bed is lowered, the bed will stop at a higher position to ensure that the foot section does not interfere with the base.

4.3.3 Head Section

The *Head Up/Head Down* controls located on both siderails enable you to raise or lower the head section of the bed. The head section can be raised to any angle of inclination up to 63°.



Head Section Controls

Location: Caregiver and patient siderails (right hand and left hand)
The *Head Up/Down* buttons are the arrows located on the left side of the label.

To Activate:

- Press and hold the *Head Up* button to raise the head section of the bed.
- Press and hold the *Head Down* button to lower the head section of the bed.

4.3.4 Nurse Call (Optional)

Nurse Call Button

On Affinity® Three Birthing Beds equipped with the optional nurse call feature use the *Nurse Call* button to place a call to the nurse call system. Above the *Nurse Call* button, the *Call* indicator light illuminates on the patient's siderail controls, indicating a call has been made.

Location: Caregiver and patient siderails (right hand and left hand).

To Activate:

- Press and release the *Nurse Call* button.
- Speak into the speaker/microphone located on the patient's side of the head end siderails.

CAUTION :

If power to the bed is lost, the nurse call function can still operate up to 4 hours depending on the charge of the battery. Before becoming completely non-functional, the system will place a non-cancellable nurse call.

NOTE :

The *Nurse Call* controls cannot be locked out.

4.3.5 Seat Section Mattress Control (Optional)

Seat Section Mattress Controls

The *Seat Section Mattress* Control enables you to inflate or deflate the seat section mattress in order to attain a degree of firmness or softness.

Location: Caregiver and patient siderails (right hand and left hand)).

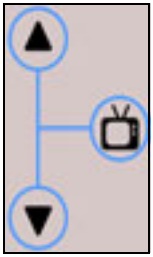
To Activate:

- To auto-inflate the seat section, press the *Caregiver Seat Inflate* Button (plus sign). To cancel the auto-inflate function, press the *Caregiver Seat Inflate* Button (plus sign) again.
- To auto-deflate the seat section, press the *Caregiver Seat Deflate* Button (minus sign). To cancel the auto-deflate function, press the *Caregiver Seat Deflate* Button (minus sign) again.
- To inflate or deflate the seat section from the patient controls, press and hold the *Patient Seat Inflate* Button (plus sign) or the *Patient Seat Deflate* Button (minus sign).

NOTE :

The auto-inflate function runs for 20 to 25 seconds before shutting off.

4.3.6 TV On/Off (Optional)



On/Off Buttons

The *TV* on/off button turns on and off the audio for the television and radio.

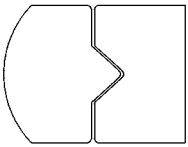
Location: Patient siderail control panel (right hand and left hand)

To Activate: Press and release the *TV* button. The green indicator light illuminates, and the television and radio audio come on. The television and radio volume controls on the patient siderail control panels are now operational.

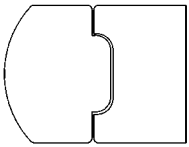
Mise hors tension : Press and release the *TV* button. The green indicator light goes off, and the television and radio audio are muted.

4.4 Bed Models

The Affinity® Three Birthing Bed is available in two options: the V-Cut or the Straight Edge.



V-Cut



Straight-Cut

4.5 Central Brake and Steer

Central Brake and Steer

The Affinity® Three Birthing Bed is equipped with 2-wheel braking and 1-wheel steering.

To Activate:

- To brake, press down firmly on the *Brake Pedal* (designated by an orange dot). Two casters will immediately lock into place. Push and pull on the bed to ensure the brakes are set.
- To release, press firmly on the *Steer Pedal* until both pedals are level (neutral position).
- To steer, press down firmly on the *Steer Pedal* (designated by a green dot).
  To release, press firmly on the *Brake Pedal* until both pedals are level (neutral position).

WARNING :

Ensure the brakes are set when transferring a patient to or from the Affinity® Three Birthing Bed. Failure to do so could result in the bed moving during the transport, which could result in personal injury.

4.6 CPR Release

The CPR Release enables the caregiver to save valuable time in an emergency. When activated, the CPR Release automatically lowers the head and seat section to the flat position, which creates a firm surface to support a CPR board.

To Activate: Pull the emergency CPR Release handle on either side of the bed. Release your hand when the head section is down to the lowest position.

Emergency CPR Release Handle

4.7 Fluid Basin

The fluid basin is reversible and easily removed for cleaning.

To Remove/Replace:

- Pull the fluid basin straight out.
- Slide the basin straight into the holding devices.

Shake the basin gently to ensure it is securely seated.

Fluid Basin

4.8 Foot Section (Lift-Off or Slide-Off)

To Remove: The foot section can be removed by using the following methods:

If the foot section height can be adjusted:

- Adjust the foot section so that the top of the mattress is about waist high.
- Pivot the foot supports laterally.
- Grasp and hold the foot section, between the snaps, as close to the body as possible.
- **Lift-Off Foot Section:** Lift and slide the foot section toward you (bending your knees) while taking a step backward.
- **Slide-Off Foot Section:** Squeeze the release levers to disengage the foot section, and slide the section toward you (bending your knees) while taking a step backward.
- Turn the top of the foot section up and, with the knees bent, place it on the floor with the stand down to hold it upright.

If the foot section is well below the waist and cannot be adjusted:

- Pivot the foot supports laterally.
- Approach the foot section from an angle (side or front).
- Place one leg forward and one leg back, bending the knees slightly.
- Grasp and hold the foot section, between the snaps, as close to the body as possible.
- **Lift-Off Foot Section:** Lift and slide the foot section toward you while taking a step backward.
- **Slide-Off Foot Section:** Squeeze the release levers to disengage it, and slide the foot section toward you while taking a step backward.
- Turn the foot section so the stand is down and, with the knees bent, place it on the floor.

To Install:

- Grasp the foot section with both hands.
- Position the foot section onto the mounting brackets located on the bed frame.
- **Lift-Off Foot Section:** While holding the foot section level, lift and slide it until the latches securely engage and a level surface is achieved.
- **Slide-Off Foot Section:** While holding the foot section level, push it until the latches securely engage and a level surface is achieved.
- Pull on the foot section to ensure that it is locked into position.

NOTE :

If the foot section is not level, this is an indication that it is not locked into position.

- Lift the foot section to the level position and push until the latches securely engage.

Foot Section Not Locked Into Position

WARNING :

The foot section must be fully secured under the mattress to provide safe support. Possible personal injury or equipment damage could occur.

The foot section must be locked into place. Pull to ensure that the latch is engaged.

4.9 OneStep™ Foot Supports

The OneStep™ Foot Supports can be simultaneously positioned up or down, through use of the motor powered foot section yoke. This foot section yoke controls the overall height up and down. Each support can be independently positioned by using the mechanical release latches at the end of the foot supports.

OneStep™ Foot Supports

To Adjust the Foot Supports:

- To position the patient's legs, squeeze the release lever and rotate the foot support. The foot support rotates upward and outward from 0° to 85°.
- To return to the storage position, squeeze the release latch again, and return the supports to the desired position.

The maximum safe working load is 150 lb (68 kg).

4.10 Headboard

The headboard includes built-in handles which aid in steering control and increase mobility. The headboard assembly is removable.

To Remove: Grasp the hand holds firmly, and lift up.

To Install: Align the headboard sockets with the posts on the bed frame, and lower the headboard until it rest on the bed frame.

4.11 IV Pole

IV Pole

The Affinity® Three Birthing Bed comes equipped with one IV pole, stored at the head end of the bed on the headboard. The IV pole sockets are located at each corner of the bed at the head end.

Deploy: Remove the IV pole from the holders. Insert the pole into the desired socket, and turn clockwise until it drops fully into the socket and locks into place.

The maximum safe working load is 25 lb (11 kg).

4.12 Labor Grips

Built-In Labor Grips

Ergonomically correct labor grips comfortably accommodate patients of all sizes. The handles are covered with a non-porous, fluid resistant foam that is comfortable for mothers to squeeze.

To Activate: To raise the labor grip, grasp the grip, and rotate it from under the bed until it clicks in place.
To lower, pull the release latch, and lower the grip under the bed.

4.13 Lockout Controls

The *Lockout* controls deactivate the hilow, head, and foot functions on the bed. When a lockout is activated, both the patient and caregiver controls for motor functions are locked out.

LED Indicator

Location: The *Lockout* control is located on the frame at the head end of the bed. The *Lockout* control LED indicator is located on the caregivers side of both siderails.

To Activate: Press the *Lockout* control switch to deactivate the motors. The lockout LED indicator on the siderail will light.

Activating the lockout function does **not** affect the operation of the emergency CPR Release.

4.14 Night Light

A photo cell control automatically turns the light on when the room darkens and turns it off when the room gets brighter. The night light does not function when the bed is powered by the battery.

Location: The night light is located on the bottom center of the bed frame.

4.15 Siderails

The Affinity® Three Birthing Bed has two siderails, one located on each side of the bed. The head end siderails contain caregiver and patient siderail controls, and can be adjusted between the upright and lowered positions.

Head End Siderail

To Adjust:

- To raise or lower the siderails, pull the *Siderail Release Latch* on the siderail, and swing the siderail into the desired position. When raising the siderails, you will hear a click when the siderail is securely in place.
- To store a siderail, lower it completely and push it in under the bed surface.

WARNING :

After changing the position of the siderails, tug on them slightly to ensure that they are securely locked in place. Failure to do so could result in patient injury.

4.16 Trend-Like Function

The Affinity® Three Birthing Bed can achieve up to 8° of Trend-Like positioning. You can activate the Trend-Like controls at any bed height. When the bed is in its lowest position and the Trend-Like function is activated, the bed will rise to the appropriate height in order to go into the full Trend-Like (8°) position.

Trend-Like Function

To Activate:

- To position the sleep surface in a Trend-Like position, push down on the handle and guide the bed to the desired degree, up to 8°.
- To level the sleep surface, pull up on the handle and guide the bed to a level position.

5 Optional Features

5.1 Air Support System

The Affinity® Three Birthing Bed features air surface controls (located on both the outside and inside of the siderail) for both seat and lumbar support. These controls provide improved patient comfort during labor, recovery, and postpartum while minimizing the cost, maintenance, and labor concerns associated with the use of overlays.

Seat Support:

Enables the patient to tailor her own comfort level. Provides pelvic support to improve practictioner access and visibility during deliveries and repairs.The firmness or softness of the surface is controlled by increasing or decreasing the amount of air contained in the air bladder. Patient and staff controls are embedded in both siderails.

Lumbar Support:

Adds varying degrees of back support in the lumbar region to improve patient comfort both before and after delivery. Fully inflated, the lumbar support allows positioning of the patient's perineum out the V-Cut for examination and delivery. The maximum lumbar inflation from a flat position to a full position is 4" (10 cm).

Auxiliary Outlet

The two auxiliary outlets provide electrical power for future upgrade accessories.

Location: The two 12 V AC (20 watt) auxiliary outlets are located on both sides of the bed.

5.2 Siderail Controls

5.2.1 Built-In SideCom® Communication System Controls (Optional)

Every Affinity® Three Birthing Bed with siderail controls is pre-wired to accommodate the SideCom® Communication System now or in the future. The SideCom® Communication System enables integration of the backlit nurse call, entertainment (radio and TV), and lighting in the siderails. The optional Universal TV is also available.

Built-In Siderail Controls

Patient and staff controls are embedded in the siderails on both sides of the bed.

The patient controls are always in full view of the patient, and the international graphic symbols provide easy orientation. Patient head and foot section controls are embedded in the inside panel of the siderails (on both sides of the bed) for the patient's convenience. Powered operation allows the patient to respond to her body signals and reduces her dependence on staff assistance for positioning, support, and comfort. These controls include *Head Up/Head Down* and *Foot Up/Foot Down*.

Staff controls are embedded in the outside panel of both siderails. In addition to head and foot section controls, the outside panel contains controls for the hilow operation.

Wood Headboards

The wood headboards includes built-in handles which aid in steering control and increase mobility. The headboard assembly is removable.

To Remove: Grasp the hand holds firmly, and lift up.

To Install: Align the headboard sockets with the posts on the bed frame, and lower the headboard until it rest on the bed frame.

6 Accessories

Table 1. Accessories List

Product Number	Description
P9625	Anesthesia screen
P9620	Arm board
P3704	Calf supports, EasyGlide™
P35745A	Calf supports, telescoping
P3612	Comfort pad
B7831	Disposable drape
P3623	Foley hook kit
P451	Foot rest bar
P7625C	Full leg supports, attached
P7634C	Full leg supports, telescoping
P278, P27802	Instrument tray (lift/slide)
P156	ISS mobile stand kit
P159	ISS offset bar
P158	ISS transfer pole
P3613	Labor bar
P276	O_2 Tank holder
P5362	Pendant control
P497	Pendant holder
P222101	Permanent IV Pole
P495	Phone
P496	Phone adaptor
SA1528	Sheets, V-cut (compete)
SA1529	Sheets, straight (compete)
SA4885	Sheets, V-cut (two-piece)
SA4586	Sheets, straight (two-piece)
P3705	Siderail pads
P3628B	Slipcover, cut head section, air
P3630EA	Slipcover, foot section

Product Number	Description
P3626B	Slipcover, straight edge head section, without air
P3627B	Slipcover, straight edge head section, air
P3625B	Slipcover, V-cut head section, without air
P3619	Wedge Assembly

6.1 Anesthesia Screen

The base of the frame slides between the mattress and the frame. The screen can be positioned on either side of the bed.

The maximum safe working load is 5 lb (2.3 kg).

6.2 Arm Board

The arm board is held in place between the frame and mattress. The padding is removable for cleaning.

The maximum safe working load is 30 lb (14 kg).

Arm Board

6.3 EasyGlide™ Calf Supports

To Adjust for Use:

- Fold in the hinged mattress.
- Rotate the foot supports all the way upward, and outward.
- Pull the release latch, and rotate the calf support to the upright position. The calf supports lock when in the upright position.
- Adjust the calf support using the release handle.

NOTE :

Check for pressure points, and make appropriate adjustments.
For **TALL PATIENTS**, angle the support downward. For **SHORT PATIENTS**, angle the support upward.

The maximum safe working load is 60 lb (27 kg).

6.4 Comfort Pad

The comfort pad is simply placed on top of the mattress and fitted securely around the mattress corners. It rolls up into a compact bundle for storage.

6.5 Disposable Drape

The full size, absorbent, disposable labor and delivery drape covers the entire seat, foot and lower backrest, and tucks into the fluid basin when the end of the bed is removed. The drape should be placed over the bottom sheet before the patient gets into bed, with the soft, absorbent surface next to the patient, waterproof side down.

6.6 Foley Hook Kit

The maximum safe working load is 20 lb (9 kg).

Foley Hook Kit

6.7 Foot Rest Bar

The maximum safe working load is 150 lb (68 kg).

Foot Rest Bar

6.8 Full Leg Supports

To Adjust for Use:

Full Leg Supports

- Electrically lower the foot section to the lowest position, with the patient's legs on the foot section, before placing her legs into the supports.
- Both full-leg supports are interchangeable right and left.
- For leg support installation, place the rod into the steel sockets located at the point where the foot section attaches to the yoke.
- Drop them into the sockets, and rotate until you hear the support lock.
- Rotate the supports so that the black knob faces inboard, toward the patient, and leave the knob loose.
- For large patients, rotate the black knob outboard, away from the patient.
- Place the patient's legs into the supports.
- Adjust the position by rotating her knees out.
- Tighten the black knob.

- Raise the foot section electrically to fill in the popliteal space by pushing the *Foot Up* control. The patient's legs should be completely supported.
- Remove the foot section.
- Rotate the foot supports up and away from the center of the bed.

NOTE :

Check for pressure points, and make appropriate adjustments.
For **TALL PATIENTS**, angle the support downward. For **SHORT PATIENTS**, angle the support upward.

The maximum safe working load is 60 lb (27 kg).

6.9 Instrument Tray

The instrument tray is available in both a lift-off and slide-off version.

Location: The instrument tray is located at the foot section of the bed, in the foot section yoke.

The maximum safe working load is 25 lb (11 kg).

Instrument Tray

6.10 Infusion Support System (ISS)

The ISS System accommodates integration of the Hill-Rom's Infusion Support System for placement of infusion support devices.

Location: Two locations, on both sides of the head section.

The maximum safe working load is 40 lb (18 kg).

ISS System

6.11 Labor Bar

For extra support, the labor bar fits into the leg support sockets between the seat and foot cushions.

To Adjust: To raise or lower the bar, use the *Foot* controls. The bar can be used in either direction for different positions and purposes.

The maximum safe working load is 100 lb (45 kg).

Labor Bar

6.12 Oxygen Tank Holder

The oxygen tank holder attaches to the head end of the frame in a vertical position. The oxygen tank holder accommodates one “E” size oxygen tank with a regulator. The mounting points are located to enable the oxygen tank holder to pivot.

Installation:

- Install the mounting bar vertically into a mounting socket at the head end of the bed frame.
- Place the tank in the holder, and tighten the holder thumbscrew. The thumbscrew keeps the oxygen tank from rotating in the holder.

Oxygen Tank Holder

Removal:

- Loosen the thumbscrew that secures the tank in the holder, and lift the tank out of the holder.
- Lift up on the oxygen tank holder, and remove it from the mounting sockets.

The maximum safe working load is 30 lb (14 kg).

6.13 Pendant Control

The pendant controls *Bed Up/Down*, *Head Up/Down*, *Foot Up/Down*.

To Activate: Push the appropriate buttons.

Pendant Control

6.14 Permanent IV Pole

Permanent IV Pole

The Permanent IV Pole, mounted on the head section frame, enables additional IV bags and pumps to be mounted on either side of the bed.

The maximum safe working load is 25 lb (11 kg).

To Deploy:

- Lift the IV pole from its stored position behind the headboard, and position it straight up.
- Make sure that the pole drops and locks into position.
- Raise the upper section of the pole to the desired height. The IV pole is ready for use.

To Store:

- Grasp and hold the upper section of the IV pole. Push the upper collar down, and lower the upper pole section into the lower pole section.
- Lift the lower section of the IV pole up, and lower the pole down to the stored position behind the headboard. The poles should rest in the storage slots provided on the bed frame.

CAUTION :

Do not mount infusion pumps on the lower section of an IV pole. Interference with head section articulation could result.

6.15 Phone and Phone Adaptor

The patient phone attaches to either siderail by using the adaptor.

Phone

6.16 Sheets

A sheet set includes pillow case, top, and custom-fitted, bottom sheets. Additionally, the two-piece bottom set is available separately. Before the Affinity® Bed is used by a patient, sheets must be placed over the mattress.

6.17 Siderail Pads

The siderail pads are simply placed over the siderail for protection against patient injury.

Siderail Pads

6.18 Slipcovers (Head and Foot)

Head

The head section slipcover is simply placed over the head section mattress for protection from normal wear and tear and from fluids.

Foot Section Slipcover

The foot section slipcover is simply placed over the foot section mattress for protection from normal wear and tear and from fluids.

Head Section Slip Cover

6.19 Wedge Assembly

To quickly convert the V-Cut Seat Section to a straight edge, slide the wedge assembly into the V-Cut seat section.

Wedge Assembly

7 Patient Positioning—Labor and Birth

NOTE :

The Labor and Delivery Drape should be placed over the bottom sheet before the patient gets into the bed.

To allow the patient to participate, show her how to operate the controls.

7.1 Upright Position/Voiding Position

- Raise the head of the bed to a comfortable position by pressing the *Head Up* control.
- Lower the foot section by pressing the *Foot Down* control.
- Place the patient in an upright position.
- Place the bed pan backward into the V-Cut on the foot section.
- A speciman container may also be used. Slide it between the mattress and bed frame.
- Position the patient out and over the V-Cut having her hold the labor grips for support.
- If the patient's legs are unstable, position her feet with the soles together to prevent sliding.

7.2 Lateral Position (Sims)

- With the bed in the lowest position and the head of the bed adjusted for the patient's comfort, position the attached calf support with the foot end pointed toward the head of the bed.
- With the patient lying on her left side, place her right leg in the support and lower the foot section for comfort.
- Adjust the support, and tighten the joint.

7.3 Kneeling Position

- Raise the head section of the bed to the full upright position.
- Have the patient kneel on the seat section and use the head section of the bed for support.

7.4 Legs Elevated With Foot Mattress

This position is useful for various clinical reasons during antepartum care, postpartum care, and anesthesia administration when a patient's legs require elevation. It may also be used for patient comfort.

To Adjust:

- Raise the foot section to its highest position.
- Fold in the hinged part of the foot section mattress.
- Place the patient's legs on the elevated mattress section.

7.5 Squatting With The Labor Bar

- With the bed in the lowest position, raise the head by pressing the *Head Up* control, and lower the foot section by pressing the *Foot Down* control.
- Insert the labor bar into the leg support sockets, so it angles away from the head of the bed.
- The patient may squat on the seat section, holding the Labor Bar, or sit with her feet on the foot section leaning forward onto the bar.

7.6 Pushing With The Labor Bar

- Raise the head of the bed to a comfortable position by pressing the *Head Up* control.
- Insert the labor bar into the support sockets, so it angles away from the head of the bed.
- Lower the foot section, if needed, by pressing the *Foot Down* control.
- Place the patient's feet on either side of the Labor Bar.
- The patient may grip the labor grips or pull back on her knees.

7.7 Pushing With The Labor Bar (With Foot Supports)

- Raise the head of the bed to a comfortable position by pressing the *Head Up* control.
- Remove the foot section.
- Place the patient's feet on the foot supports and adjust for comfort.
- Insert the labor bar into the support sockets, so it angles away from the head of the bed.
- The patient may grasp the labor bar where it's comfortable for her.

7.8 Pushing with Calf Supports

To Adjust:

- Adjust the head of the bed to approximately 30°, by pressing the *Head Up* control.
- Place the patient's legs on the calf supports.
- The patient may pull back on her knees without the need for the staff to assist her.
- Lower the foot section if desired.

7.9 Epidural/Spinal (Lateral Approach)

- Lower and tuck away one siderail.
- Position the bed to a comfortable height, and lower the head of the bed.
- Place the patient in a lateral recumbent position at the mattress edge.

7.10 Epidural (Sitting Approach)

- Raise or lower the bed to a comfortable height for the staff, and flatten the bed.
- Have the patient dangle her legs over the opposite side of the bed.

7.11 Straight Line Trend-Like Positioning

- Pull the CPR Release to lower the head of the bed to a full flat position.
- Push down on the Trend-Like handles (located on either side of the bed) and guide the bed to the desired degree, up to 8°.
- To level the sleep surface, pull up on the handle and guide the bed to a flat position.

General Anesthesia

- In an emergency, position the bed to a comfortable height.
- Remove the headboard.
- Position the patient for intubation.

7.12 Throne Position (Chair)

- Raise the head of the bed to place the patient in a sitting position.
- Pull up the labor grips.
- Position the patient's feet in the foot supports.
- Remove the foot section.
- Use the *Foot* control to raise or lower the Foot Supports.
- Tuck the end of the drape into the drainage pan and raise the bed to a comfortable height by pressing the *Bed Up* control.

7.13 Birthing Bed Mode

- Position the patient's feet in the foot supports. Raise the supports to a comfortable position.
- Pull up the labor grips.
- Remove the foot section, and tuck the drape into the drainage pan.
- Tilt up the foot support.
- Raise the bed to a comfortable height by pressing the *Bed Up* control, and position the patient's perineum out and over the edge of the seat section.

7.14 Delivery Table Mode

- Slide the patient down so that her buttocks are at the division in the mattress.
- Lower the foot section to its lowest position.

With Calf Supports

- Position the attached calf supports, and place the patient's legs in the supports.
- Adjust the angle of the supports, and tighten the ball joints.

With Full Leg Supports

- Adjust the angle of the leg supports, and tighten the black-winged knob.
- Push the **Foot Up** control to raise the leg supports, so that they securely support the patient's perineum **over** the cut-out space.
- Remove the foot section, and raise the bed to a comfortable working height.

NOTE :

Check pressure points.

- Press the *Foot Up* control to raise the supports so that they securely support the patient's perineum **over** the edge of the seat section.
- Remove the foot section, and raise the bed to a comfortable working height. The drainage pan can also be removed for extra exposure.

7.15 High Modified Trend-Like Position (Birth And Repair)

- Raise the bed to the desired height using the *Hilow* control.
- Raise the head section to the desired position by using the *Head Up* control.
- Position the patient's legs in calf supports.
- Push down on the Trend-Like handle to place the patient in modified Trend-Like position and to raise the perineum.

8 Safety Tips

For over 70 years Hill-Rom has set the standard for quality in patient beds. During this time, with input from many of our customers, we have acquired these useful tips.

Bed Positions

WARNING :

Make sure the bed is in the low position when the patient is unattended. This can reduce the possibility of patient falls and the severity of any resultant injuries.

Brakes

WARNING :

Always set the brakes when the bed is occupied, except during patient transport. To help ensure the bed will not move, push and pull on the bed to check it after the brakes are engaged.

Brakes should always be set when the bed is occupied and especially when moving a patient from one surface to another. Patients often use the bed for support when getting out of bed and could be injured if the bed unexpectedly moves. After setting the brakes, push and pull the bed to insure stability.

Fluids

WARNING :

Significant fluid spills onto the bed electronics can result in a hazard. If such a spill occurs, unplug the bed and remove it from service. Failure to do so could result in personal injury or equipment damage.

When massive fluid spills occur on the bed, immediately:

- Unplug the bed from its power source.
- Remove the patient from the bed.
- Clean the fluid spill from the bed system.
- Have maintenance inspect the system completely.

Do not put the bed back into service until it is completely dry, tested, and determined to be safe to operate.

Siderails/Restraints/Patient Monitoring

The siderails should always be in a full upright position and latched when a patient is unattended. When raising the siderails, an audible click indicates that the siderails are completely raised and locked in place.

Siderails are intended to be a reminder, not a patient restraining device. Hill-Rom recommends the appropriate medical personnel determine the level of restraint necessary to ensure a patient will remain safely in bed. Consult the restraint manufacturer's instructions for use to verify the correct application of each restraining device.

WARNING :
Siderails are not intended to be used as restraint devices. Medical personnel should determine the appropriate use of siderails and ensure patient safety. Failure to do so could result in patient injury.

1. Develop guidelines for all patients that indicate:

   - Which patients may need to be restrained and the appropriate restraint to utilize.
   - The proper method to monitor a patient, whether restrained or not, including time interval, visual check of restraint, etc.

2. Develop training programs for all caregivers concerning the proper use and application of restraints.

3. Maintain the bed at its lowest position whenever a caregiver is not in the room.

4. Clarify the need for restraint devices to families or guardians.

Electricity

WARNING :
Unplug the bed from its power source, and activate the lockout switches before cleaning or service. Failure to do so could result in personal injury or equipment damage.

Verify that the lockout switch is activated before cleaning or servicing the bed. The battery backup provides power to the bed functions even when the bed is unplugged from its power source.

WARNING :
Establish policies and procedures to train and educate your staff on the risks associated with electrical equipment. Failure to do so could result in personal injury or equipment damage.

WARNING :
Significant fluid spills onto the bed electronics can result in a hazard. If such a spill occurs, unplug the bed, and remove it from service. Thoroughly clean the bed and allow it to dry, then have the bed checked by service personnel.

CAUTION :
Before transporting the bed, ensure that the power cord is stored on the power cord wrap holder provided on the headboard. Failure to do so could result in equipment damage.

WARNING :
Improper use or handling of the power cord may result in damage to the power cord. If damage has occurred to the power cord or any of its components, immediately remove the bed from service, and contact the appropriate maintenance personnel. Failure to do so could result in personal injury or equipment damage.

Use only Hill-Rom power cords as a replacement. Other power cords have not been investigated for compliance with electrical safety standards for this product.

WARNING :
If the integrity of the external protective earth conductor is in doubt, operate the bed from its internal electrical power source. Failure to do so could result in personal injury.

CAUTION :

This device meets all requirements for electromagnetic compatibility per IEC 601-1-2 and the Medical Device Directive and has been fully tested to such requirements. It is unlikely that the user will encounter problems with this device because of inadequate electromagnetic immunity. However, electromagnetic immunity is always relative, and standards are based on anticipated environments of usage. If the user notes unusual device behavior, particularly if such behavior is intermittent and associated with nearby usage of radio or TV transmitters, cell phones, or electrosurgical equipment, this could be an indication of electromagnetic interference. If such behavior occurs, the user should try moving the interfering equipment further from this device

Policies and procedures must be established to train and educate your staff on the risks associated with electric equipment. It is never prudent or necessary for personnel to place any part of their body under or between moving parts of the bed. Whenever a bed is being cleaned or serviced, it should be unplugged from its power source, and the lockout switch should be activated to keep the bed from accidentally operating due to the battery backup. If service personnel need to get under the bed, the hilow portion must be blocked up as an added precaution. Refer to the *Affinity® Three Birthing Bed Service Manual* (man272).

Parts and Accessories

Use only Hill-Rom parts and accessories. Do not modify the bed system without authorization from Hill-Rom.

Operating Precautions

WARNING :

Do not operate the bed in the presence of flammable gas or vapors. Failure to do so could result in personal injury or equipment damage.

WARNING :

Use oxygen administering equipment of the nasal, mask, or ventilator type only. Do not use the bed with oxygen tents. Failure to do so could result in personal injury or equipment damage.

WARNING :
Deactivate the bed functions using the lockout control. Movement of a patient or inadvertent activation of the bed functions by anyone else could result in personal injury.

Lockout Controls

Activate the lockout control at the head end of the bed to keep a patient or visitor from operating the motor function on the siderail controls.

Maintenance

WARNING :
Only facility-authorized personnel should perform preventive maintenance on the Affinity® Three Birthing Bed. Preventive maintenance performed by unauthorized personnel could result in personal injury or equipment damage.

The Affinity® Three Birthing Bed requires an effective maintenance program. We recommend that you perform annual preventive maintenance (PM) and testing for Joint Commission on Accreditation of Healthcare Organizations (JCAHO). PM and testing not only meet JCAHO requirements but will help ensure a long, operative life for the Affinity® Three Birthing Bed. PM will minimize downtime due to excessive wear. For the preventive maintenance schedule, refer to the *Affinity® Three Birthing Bed Service Manual* (man272).

Troubleshooting

WARNING :
Only facility-authorized personnel should troubleshoot the Affinity® Three Birthing Bed. Troubleshooting by unauthorized personnel could result in personal injury or equipment damage.

Always check the battery charge status on the siderail. The bed may not be functioning due to the battery being drained, and the bed needing to be plugged into its appropriate power source.

Transport

WARNING :

The Affinity® Three Birthing Bed is intended to be used to transport patients with the foot end of the bed forward. Prior to transport, properly store the power cord to help prevent tripping. Use only the headboard transport handles to move the bed during transport. Do not transport patients while the bed is in the chair position. Failure to do so could result in personal injury or equipment damage.

WARNING :

Make sure that the patient, equipment, and all lines (including power cords) are securely placed within the perimeter of the bed for intra-hospital transport. Failure to do so could result in personal injury or equipment damage.

WARNING :

Fully extended IV poles could impact doorways or ceiling fixtures. Lower the poles prior to patient transport. Failure to do so could result in personal injury or equipment damage.

WARNING :

Be sure to connect the nurse call SideCom® Communication System cables after transport is complete. Failure to do so could result in personal injury.

WARNING :

Do not leave the bed exposed to extreme environmental conditions for extended periods of time. Possible equipment damage could occur.

WARNING :

Transport the bed in a low position, and ensure that the bed is not transported over a side inclination of more than 5°. Failure to do so could result in personal injury or equipment damage.

9 Cleaning

WARNING :
Follow the product manufacturer's instructions. Failure to do so could result in personal injury or equipment damage.

WARNING :
Unplug the unit from its power source. Failure to do so could result in personal injury or equipment damage.

WARNING :
Do not expose the unit to excessive moisture. Personal injury or equipment damage could occur.

CAUTION :
Do not use harsh cleaners, solvents, or detergents. Equipment damage could occur.

General Cleaning

Clean the unit with a lightly dampened cloth and ordinary disinfectants. Do not use excessive liquid.

Steam Cleaning

Do not use any steam cleaning device on the Affinity® Three Birthing Bed. Excessive moisture can damage mechanisms in this unit.

Cleaning Hard to Clean Spots

To remove difficult spots or stains, use standard household cleaners and a soft bristle brush. To loosen heavy, dried-on soil or excreta, you may first need to saturate the spot.

Disinfecting

Dilute disinfectants and germicides as specified on the manufacturer's label.

Care of Wood Components

Wood is selected for use on beds because of its beauty and warmth. All Hill-Rom wood products are treated with a resin-based sealer and finish that provide resistance to abrasion, staining, fluids, and fire. Many disinfectant/cleansers have a “softening” effect on any painted or finished surface if used in high concentrations. Diluted ammonia, mild detergents, and diluted bleach solutions may be used. Clean by wiping a soft dampened cloth over the surface, followed by wiping with a dry cloth. At no time should a wet cloth be allowed to lay on the surface. Any liquid spilled on the surface should be wiped up immediately. Any liquid allowed to lay on the surface unattended may damage the finish. For protection of the finish we recommend using a liquid-type furniture polish. Polish about once a month, and wipe off any excess with a soft dry cloth. Have any nicks or scrapes repaired to prevent water damage.

Mattress Care and Draping

Correct draping technique is essential in preserving the life of the mattress. Drapes must be fluid repellent. The Hill-Rom labor and delivery drape effectively covers the lower three quarters of the bedding throughout labor. Additional pads or towels placed under the patient will help prevent fluid from reaching the edges of the drape. This safeguard keeps the sheets clean and dry while preventing fluid exposure to the mattress.

NOTE :

Standard OB packs and paper drapes will not keep the sheets dry.

Repeated soaking of mattress materials will accelerate wear and eventually destroy mattress seals, causing fluids to leak into the cushions.

Hill-Rom slipcovers are recommended to help extend the life of the mattress.

NOTE :

Mattress damage caused by improper draping and cleaning procedures is not covered by warranty.

NOTE :

Sheets must always be placed over the mattress before the bed is used by a patient.

The following products have been tested by the Herculite Laboratory and have been found not to have a harmful effect on Dartex®[1] fabrics **when used in accordance with manufacturer's recommended dilution.**

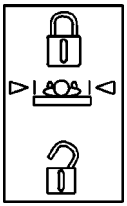
Trade Name	Type	Manufacturer
A33	Quartenary	Airwick
Absolute	Quartenary	Walton-March
Beaucoup®[a]	Phenolic	Huntington
Blue Chip	Quartenary	S.C. Johnson
Coverage 256	Quartenary	Vestal
El Dorado Plus	Quartenary	Puritan/Churchill
Elimstaph	Quartenary	Walter G. Legge
Forward DC	Quartenary	S.C. Johnson
Frenklin Sentine	Quartenary	Purex
Galahad®[b]	Phenolic	Puritan/Churchill
Hi-Tor®[c]	Quartenary	Huntington
Insurance	Quartenary	Vestal
LPH	Phenolic	Vestal
Matar®[d]	Phenolic	Huntington
Omega	Quartenary	Airwick
Quanto®[e]	Quartenary	Huntington
Sanikleen	Quartenary	West Chemical
Sanmaster III	Quartenary	Service Master
Surfacide®[f]	Quartenary	Walton-March
Tri-Quat	Quartenary	Vestal
Vesphene®[g] II	Phenolic	Vestal
Virex®[h]	Quartenary	S.C. Johnson
Deep Purple	N/A	N/A
Betagone	N/A	N/A

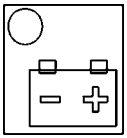
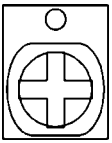
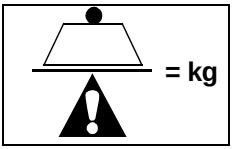
a. Galahad® is a registered trademark of Puritan Chemical Company
b. Surfacide® is a registered trademark of Walton-March, Inc.
c. Virex® is a registered trademark of S.C. Johnson & Son, Inc.
d. Beaucoup® is a registered trademark of Huntington Laboratories, Inc.
e. Hi-Tor® is a registered trademark of Huntington Laboratories, Inc.
f. Matar® is a registered trademark of Huntington Laboratories, Inc.
g. Quanto® is a registered trademark of Huntington Laboratories, Inc.
h. Vesphene® II is a registered trademark of E.R. Squibb & Sons, Inc.

1. Dartex® is a registered trademark of Courtaulds Textiles (Holdings) Limited.

10 Product Symbol Definition

The following symbols are used on the Affinity® Three Birthing Bed:

Symbol	Description
	Type B applied part according to EN 60601-1
IPX2	According to IEC 529
	CAUTION: Consult accompanying documents
	Conforms to the European Medical Device Directive 93/42/EEC
	Certified by Underwriters Laboratory in accordance with UL2601-1, CAN/CSA C22.2 NO.601.1, EN 60601-1, IEC 601-2-38 and IEC 601-1-2.
	CPR function—Identifies the release lever that can be used to manually drop the inclined head section, in order that cardiopulmonary resuscitation can be performed without delay
	Lockout control label—The switch in the up position indicates the lockout control is **on**. The switch in the down position indicates the lockout control is **off** (refer to the section titled “Lockout Controls” on page 16 for lockout status information)

Symbol	Description
	Battery charge status (refer to the section titled “Battery Backup” on page 5 for battery status information)
	Nurse call (refer to the section titled “Nurse Call (Optional)” on page 9 for nurse call switch information)
	Lockout control status—when the lockout control status light is on, the lockout function is activated.
	Identifying mains fuse
	Alternating current
	Equipotentiality
	Safe working load

Symbol	Description
	Electric shock hazard
	Keep feet clear of this area. Potential for injury.
	Trend-Like function

11 Technical Specifications

Table 2. Dimensions for Product P3700

Feature	Dimension
Total Length	90" (229 cm)
Length from roller bumpers to break in seat section	61 7/8" (157 cm)
Length from break in the seat section to end of bed	28 1/8" (71 cm)
Maximum Width (siderails stored)	36" (91 cm)
Maximum Width (siderails up)	39" (99 cm)
Maximum Headboard Height	52" (132 cm)
Maximum Siderail Height (without mattress)	14¾" (37.47 cm)
Minimum Under-Bed Clearance	5" (13 cm)
Wheel Base	50" (127 cm) x 29" (74 cm)
Mattress Width	35" (89 cm)
Mattress Length	78" (198 cm)
Mattress Thickness (head/seat)	4" (10 cm)
Mattress Thickness (foot)	3" (8 cm)
Detachable Power Cord, IEC 320/interface	US, 84" (213 cm)/international, 98" (248.9 cm)
Caster Size	6" (15 cm) or 8" (20 cm)
Total Weight	480 lb (218kg) maximum

Table 3. Specifications for Product P3700

Feature	Dimension
Head Section Inclination (maximum)	63°
Seat Section Inclination (maximum)	15°
Bed Height Range	18" (46 cm) to 34" (86 cm)
Bed Height Range (with mattress)	22" (56 cm) to 38" (97 cm)
Trend-Like position (maximum)	8°
Bed Lift capacity (maximum safe working load)	500 lb (227 kg)
Foot Section Lift capacity (maximum)	400 lb (181 kg)
Head Section Lift capacity (maximum)	200 lb (91 kg)
Maximum Height of Seat Section (in Trend-Like position)	40" (102 cm)

Table 4. Product Identification

Product Number	Description
P3700	Affinity® Three Birthing Bed

Table 5. Environmental Conditions for Transport and Storage

Condition	Range
Temperature	-40°F(-40°C) to 158°F (70°C)
Relative humidity	95% non-condensing
Pressure	500 hPa to 1060 hPa

Table 6. Environmental Conditions for Use

Condition	Range
Temperature	59°F (15°C) to 104°F (40°C) ambient temperature
Relative humidity range	10% to 85% non-condensing

Table 7. Mains Power Requirements

Condition	Range
Rated voltage	120V AC/230V AC
Power/input	4 A/2 A
Frequency	50/60 Hz

Table 8. Fuse Specifications

Condition	Range
Air system fuse (air system optional)	2 A, 250 V~, 5 x 20 mm, UL 198G Fast Acting
Battery fuse	10 A, 32 V~, ATO
Mains fuse (120 V bed model)	4 A, 250 V~, 5 x 20 mm, UL 198G Slo-Blo®[a] or equivalent
Mains fuse (230 V bed model)	2 A, 250 V~, 5 x 20 mm, IEC127 Sheet III, Time Delay

a. Slo-Blo® is a registered trademark of Littelfuse, Inc.

Table 9. Auxiliary Outlet Power Specifications

Condition	Range
Auxiliary outlets	12V AC, 20 W per outlet, electrically isolated from earth ground

Table 10. Classification and Standards

The Affinity® Three Birthing Bed is designed and manufactured according to equipment classifications and the following standards.

Technical and Quality Assurance Standards	EN 60601-1 and amendments UL 2601-1 CSA®[a] C22.2 No. 601.1 IEC 60601-2-38 IEC 60601-1-2 EN ISO 9001 and EN 46001
Equipment Classifications per EN 60601-1	Class I equipment, internally powered equipment
Degree of Protection Against Electric Shock of the Applied Part	Type B
Classification according to Directive 93/42/EEC	Class I
Degree of Protection Against Ingress of Water	IPX2
Degree of Protection Against the Presence of Flammable Anaesthetic Mixtures	Ordinary equipment, not for use in a flammable atmosphere
Mode of Operation	Continuous operation with intermittent loading, 3 minutes ON/30 minutes OFF

a. CSA® is a registered trademark of Canadian Standards Association, Inc.

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